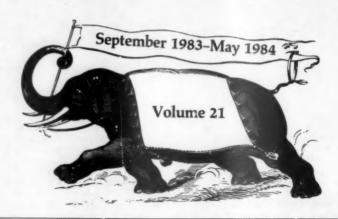
Science hildren

ANNUAL



AUTHOR INDEX

Alexander, Gretchen M. Working Together. Sept 83:26, 51
Ault, Charles R., Jr. Intelligently Wrong: Some Comments on
Children's Misconceptions. May 84:22-24

Children's Misconceptions. May 84:22-24
Ballin, Arny. Gardening at Horizons. April 84:21-22
Bandy, Marlin Robert. See How They Gross. Oct 83:42-43
Barhydt, Frances. Sweet Renson. Nov/Dec 83:17-19
Barnes, George B. Carree Balls, Airplane Wings, and Prairie

Dog Holes. May 84:13-15
Barrow, Lloyd H., and Bette S. Bergeron. Using the Big C in Science. Oct 83:27-28

_____, and Gert Nesin. Density in Liquids. April 84:28-30 Batch, D. David. Evening Skies (monthly)

Bellipanni, Lawrence J., Donald R. Cotten, and Jan Marion Kirkwood. In the Balance. Jan 84:12-13Bergeron, Bette S., and Lloyd H. Barrow. Using the Big C

Bergeron, Bette S., and Lloyd H. Barrow. Using the Big C in Science. Oct 83:27-23 Bindel, Henry J., Jr., and Phyllis Marcuccio, eds. Directory

Bindel, Henry J., Jr., and Phyllis Marcuccio, eds. Directory of Science Education Suppliers, 3rd Edition. Jan 84:27–98 Birnie, Howard H., and Alan Ryan. Inquiry/Discovery Revis-

itel. April 84: 31-32 Blueford, Joyce R., and Leslie C. Gordon. The Not-So-Racky Raul to Earth Science: Some Geologists Show the Way. April 84:12-15

April 84:12-15
Brown, Mavis, and Jane Sawyer. A Child's Garden of Radishes. April 84:23-24

Burns, Joseph C. Combatting the Hydra (Curriculum Reviews). Sept 83:59

Butzow, John W. Bringing Clams to the Classroom. Oct 83:33-35

Carver, Deborah J. Cell Theory Rap. Nov/Dec 83:25 Cassen, Julie. Why the North Star Dassi's Move (Helpful Hints). April 84:20

Coble, Charles R., and Thomas R. Koballa, Jr. The Rural

Coe, Elisabeth J., and Kathleen A. Lentz. Determining Levels of Concreteness and Abstraction (What Research Says). March 84:50-52

Combs, Leslie. An Echo in Nepal. Sept 83:15–18 Contant, Terry, and Carolyn Sumners. Earthbound Astro-

nauls. Nov/Dec 83:7-11
Cotten, Donald R., Lawrence J. Bellipanni, and Jan Mar-

ion Kirkwood. In the Balance. Jan 84:12-13 Coulter, John C. Sun Prints (Helpful Hints). May 84:56 Cowles, Kathleen Letcher. 350 Million Years Old and Still

Cowles, Kathleen Letcher. 350 Million Years Old and Still Going Strong. March 84:20-23 Cronin, Linda L., and Michael J. Padilla. Endangered Species.

Cronin, Linda L., and Michael J. Padilla. Endangered Species: Activities and Ideas (Early Adolescence). Jan 84:109–11 Crowe, Diane. The Ins and Outs of Life Science (In the Schools). Nov/Dec 83:34-36

Dabney, Joy, Irwin L. Slesnick, and Christine Mullikin.
Who Lives in Mud? (Poster). March 84:29-36

Davis, Velma Lou. Prickly Pear to the Rescue. May 84:11-12 Del Soldo, Lou, and Lisa Irwin. Invitation to a Mold Symposium (In the Schools). Jan 84:106-08

Dennison, Judy H. The Growing Classroom (Curriculum Reviews). April 84:33

Dobrofsky, Miriam. TOPS Learning Systems (Curriculum Reviews). Oct 83:50-52

Faller, Richard. Solar Energy: Transferring and Storing Energy from the Sun (Curriculum Reviews). Feb 84:37; Visual Perception of Objects (Curriculum Reviews). March 84:53 Flowers, John D. Evening Sties in a Shoe Box. May 84:55 Foster, Gail C. "Oh No! A Science Project!" Novi/Dec 83:20-22 Garigliano, Leonard J. Early Adolescence (Letters). Sept 83:5 Garver, Janice B. Minerals and Formal Thought (Early Ado-

lescence). Sept 83:54-56 George, Twig, Richard Tinney, and Linda Maraniss. The First of March Gets the Seal of Approval. Feb 84:10-13 Gordon, Leslie C., and Joyce R. Blueford. The Not-So-

Rocky Road to Earth Science: Some Geologists Show the Way. April 84:12-15 Gordon, Paul. Help Wanted. Oct 83:18; The May-June Issue

of S&C (Letters). Sept 83:5 Grigsby, Doris K., and Mary H. Lewis. Tomaloes in Space. March 84:6-7

Gurley, 'Laine I. Take a Binl's-eye Virso. Sept 83:19-21 Halper, Jean. A Wile E. Scheme? (Letters). Sept 83:5 Heikkenen, Henry, ed. Rossures Revisus (monthly) Howe, Samuel F. Using Interactive Video. Sept 83:13-14 Irwin, Lisa, and Lou Del Soldo. Invitation to a Mold Sympo

sium (In the Schools). Jan 84:106-08 Johns, Kenneth W. Siump Out Blue Blood! May 84:20-21 Johnston, Jerome. Meeting Science Education Goals with 3-2-1 CONTACT (What Research Says). April 84:38-39

 Jones, Howard L., and Carolyn Sumners. Roller Conster Science. Oct 83:12-14
 Jung, Joan. An Aluminum Belt: Same Lessons in Recycling.

Jung, Joan. An Aluminum Belt: Some Lessons in Recyclin March 84:38–39
Kanis, Ira B., et al. Nature's Niche. April 84:26–27

Kaplan, Nancy. But That's Not Fair! April 84:24-25 Karstaedt, Debbrah A. The World of Tiny Living Things. Jan 84:7-11

Kirkwood, Jan Marion, Lawrence J. Bellipanni, and Donald R. Cotten. In the Balance. Jan 84:12-13 Knouff, Mary Jo, and Janet K. Wolfe. Flying High for 200

Years. Sept 83:9-12

Koballa, Thomas R., Jr., and Charles R. Coble. The Rural

Advantage. Oct 83:19-22

Kortmeyer, Gloria. Saturday Morning Science Live (In the Schools). March 84:48-49
Kramer, David C. Starting Trees from Cuttings. Nov/Dec

83:23-24 Kucherov, Alexander. The Tree Machine. Feb 84:28-29 Lamb, William G. Why Is the Shy Blue?. Jan 84:101-02

Lawrence, Paula, Gerald Skoog, and Barbara Simmons. At Their Levil: LEA in the Science Classroom. Jan 84:103-05 Lentz, Kathleen A., and Elisabeth J. Coe. Determining Levels of Concreteness and Abstraction (What Research Says). March 84:50-52

Lewis, Mary H., and Doris K. Grigsby. Tomatoes in Space.

Leyden, Michael B. For It's Only a Paper Moon. April 84:18-20

Lind, Karen K. Which Computer Magazine? Jan 84:21-23 Lupo, Patricia, O.S.B. Do Not Squander What Belongs to Future Generations (In the Schools). May 84:63–64
McClurg, Pat. Don't Squash It! Collect It!. May 84:8-10
Macey, Ioan Mary. What a Trashy Display! (Bulletin Board).

Feb 84:38
McIntyre, Margaret. Feling Full (Early Childhood). Oct
83:44–46; Tis the Susson (Early Childhood). Nov/Dec
83:37–38; Welcome Back! (Early Childhood). Sept

83:52-53
McKee, Mary E. Some Plants We Eat. Feb 84:19-20
McSwain, June. Reconsidering Gypsy Moths (Letters). Sept

Main, Edna D. Science and Creative Writing: A Dynamic Duo. Jan 84:24-26, 99-100

Maraniss, Linda, Richard Tinney, and Twig George. The First of March Gets the Soal of Approval. Feb 84:10-13 Marcuccio, Phyllis, and Henry J. Bindel, Jr., eds. Directory

of Sciene Education Suppliers, 3rd Edition. Jan 84:27-98
Mechling, Kenneth R., and Donna L. Oliver. The Principals' Project: Promoting Science Among Elementary School Principals. Nov/Dec 83:14-16; Who Is Killing Your Science Program? Oct 83:15-18

Medlock, Robert, and Josephine Midkiff. A Field Trip to Lakota (In the Schools). April 84:38–39

Midkiff, Josephine, and Robert Medlock. A Field Trip to Lakota (In the Schools). April 84:38-39

Miller, Penny Folley. Pick a Pack of Prizewinners. Oct 83:36-37

Mills, Richard. Insects and Others. May 84:4-7 Milson, James L. Looking Around at the Zoo. Feb 84:24-27; see also A Koala Update (In the News). May 84:3

Mindes, Mark, et al. Nature's Niche. April 84:26–27
Minstrell, Jim, and Carol Smith. Alternative Conceptions and a Strategy for Change (What Research Says). Nov/Dec 83:31–33

Mogil, H. Michael. Sharpening Your Weather Eye. Feb 84:14-18; Winter Storm Watch. March 84:10-14

Moore, John Travers. Some Bugs! Sept 83:22-23 Mullikin, Christine, Irwin L. Slesnick, and Joy Dabney. Who Lives in Muli? (Poster). March 84:29-36

Nathanson, Bob, et al. Nature's Niche. April 84:26-27 Neleson, Charles S. The May-June Issue of S&C (Letters). Sept 83:5

Nesin, Gert, and Lloyd H. Barrow. Density in Liquids. April 84:28-30

Oliver, Donna L., and Kenneth R. Mechling. The Principals' Project: Promoting Science Among Elementary School Principals. Nov/Dec 83:14–16; Who Is Killing Your Science Programi? Oct 83:15–18

Orlich, Donald C. Inservice Education: A Problem or a Solution?
(What Research Says). Feb 84:33-35
O'Sullivan Kathlean A Contine a Jestinia Coster March

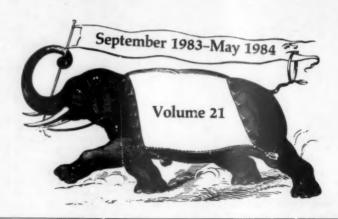
O'Sullivan, Kathleen A. Creating a Learning Center. March 84:15-17 Padilla, Michael, and Linda L. Cronin. Endangered Species:

Activities and Ideas (Early Adolescence). Jan 84:109-11
Perry-Holmes, Claudia. Outdoors with Uncle Sam: 46 Ways to Use the Government Printing Office. Oct 83:23-26

Phillips, Julie. Space Age Meter. Oct 83:9-11 Pizzini, Edward L., and Rebecca C. Severeide. The Role of Play in Science (What Research Says). May 84:58-61

Science hildren

ANNUAL



AUTHOR INDEX

Alexander, Gretchen M. Working Together. Sept 83:26, 51
Ault, Charles R., Jr. Intelligently Wrong: Some Comments on
Children's Misconceptions. May 84:22-24

Children's Misconceptions. May 84:22-24
Ballin, Arny. Gardening at Horizons. April 84:21-22
Bandy, Marlin Robert. See How They Gross. Oct 83:42-43
Barhydt, Frances. Sweet Renson. Nov/Dec 83:17-19
Barnes, George B. Carree Balls, Airplane Wings, and Prairie

Dog Holes. May 84:13-15
Barrow, Lloyd H., and Bette S. Bergeron. Using the Big C in Science. Oct 83:27-28

_____, and Gert Nesin. Density in Liquids. April 84:28-30 Batch, D. David. Evening Skies (monthly)

Bellipanni, Lawrence J., Donald R. Cotten, and Jan Marion Kirkwood. In the Balance. Jan 84:12-13Bergeron, Bette S., and Lloyd H. Barrow. Using the Big C

Bergeron, Bette S., and Lloyd H. Barrow. Using the Big C in Science. Oct 83:27-23 Bindel, Henry J., Jr., and Phyllis Marcuccio, eds. Directory

Bindel, Henry J., Jr., and Phyllis Marcuccio, eds. Directory of Science Education Suppliers, 3rd Edition. Jan 84:27–98 Birnie, Howard H., and Alan Ryan. Inquiry/Discovery Revis-

itel. April 84: 31-32 Blueford, Joyce R., and Leslie C. Gordon. The Not-So-Racky Raul to Earth Science: Some Geologists Show the Way. April 84:12-15

April 84:12-15
Brown, Mavis, and Jane Sawyer. A Child's Garden of Radishes. April 84:23-24

Burns, Joseph C. Combatting the Hydra (Curriculum Reviews). Sept 83:59

Butzow, John W. Bringing Clams to the Classroom. Oct 83:33-35

Carver, Deborah J. Cell Theory Rap. Nov/Dec 83:25 Cassen, Julie. Why the North Star Dassi's Move (Helpful Hints). April 84:20

Coble, Charles R., and Thomas R. Koballa, Jr. The Rural

Coe, Elisabeth J., and Kathleen A. Lentz. Determining Levels of Concreteness and Abstraction (What Research Says). March 84:50-52

Combs, Leslie. An Echo in Nepal. Sept 83:15–18 Contant, Terry, and Carolyn Sumners. Earthbound Astro-

nauls. Nov/Dec 83:7-11
Cotten, Donald R., Lawrence J. Bellipanni, and Jan Mar-

ion Kirkwood. In the Balance. Jan 84:12-13 Coulter, John C. Sun Prints (Helpful Hints). May 84:56 Cowles, Kathleen Letcher. 350 Million Years Old and Still

Cowles, Kathleen Letcher. 350 Million Years Old and Still Going Strong. March 84:20-23 Cronin, Linda L., and Michael J. Padilla. Endangered Species.

Cronin, Linda L., and Michael J. Padilla. Endangered Species: Activities and Ideas (Early Adolescence). Jan 84:109–11 Crowe, Diane. The Ins and Outs of Life Science (In the Schools). Nov/Dec 83:34-36

Dabney, Joy, Irwin L. Slesnick, and Christine Mullikin.
Who Lives in Mud? (Poster). March 84:29-36

Davis, Velma Lou. Prickly Pear to the Rescue. May 84:11-12 Del Soldo, Lou, and Lisa Irwin. Invitation to a Mold Symposium (In the Schools). Jan 84:106-08

Dennison, Judy H. The Growing Classroom (Curriculum Reviews). April 84:33

Dobrofsky, Miriam. TOPS Learning Systems (Curriculum Reviews). Oct 83:50-52

Faller, Richard. Solar Energy: Transferring and Storing Energy from the Sun (Curriculum Reviews). Feb 84:37; Visual Perception of Objects (Curriculum Reviews). March 84:53 Flowers, John D. Evening Sties in a Shoe Box. May 84:55 Foster, Gail C. "Oh No! A Science Project!" Novi/Dec 83:20-22 Garigliano, Leonard J. Early Adolescence (Letters). Sept 83:5 Garver, Janice B. Minerals and Formal Thought (Early Ado-

lescence). Sept 83:54-56 George, Twig, Richard Tinney, and Linda Maraniss. The First of March Gets the Seal of Approval. Feb 84:10-13 Gordon, Leslie C., and Joyce R. Blueford. The Not-So-

Rocky Road to Earth Science: Some Geologists Show the Way. April 84:12-15 Gordon, Paul. Help Wanted. Oct 83:18; The May-June Issue

of S&C (Letters). Sept 83:5 Grigsby, Doris K., and Mary H. Lewis. Tomaloes in Space. March 84:6-7

Gurley, 'Laine I. Take a Binl's-eye Virso. Sept 83:19-21 Halper, Jean. A Wile E. Scheme? (Letters). Sept 83:5 Heikkenen, Henry, ed. Rossures Revisus (monthly) Howe, Samuel F. Using Interactive Video. Sept 83:13-14 Irwin, Lisa, and Lou Del Soldo. Invitation to a Mold Sympo

sium (In the Schools). Jan 84:106-08 Johns, Kenneth W. Siump Out Blue Blood! May 84:20-21 Johnston, Jerome. Meeting Science Education Goals with 3-2-1 CONTACT (What Research Says). April 84:38-39

 Jones, Howard L., and Carolyn Sumners. Roller Conster Science. Oct 83:12-14
 Jung, Joan. An Aluminum Belt: Same Lessons in Recycling.

Jung, Joan. An Aluminum Belt: Some Lessons in Recyclin March 84:38–39
Kanis, Ira B., et al. Nature's Niche. April 84:26–27

Kaplan, Nancy. But That's Not Fair! April 84:24-25 Karstaedt, Debbrah A. The World of Tiny Living Things. Jan 84:7-11

Kirkwood, Jan Marion, Lawrence J. Bellipanni, and Donald R. Cotten. In the Balance. Jan 84:12-13 Knouff, Mary Jo, and Janet K. Wolfe. Flying High for 200

Years. Sept 83:9-12

Koballa, Thomas R., Jr., and Charles R. Coble. The Rural

Advantage. Oct 83:19-22

Kortmeyer, Gloria. Saturday Morning Science Live (In the Schools). March 84:48-49
Kramer, David C. Starting Trees from Cuttings. Nov/Dec

83:23-24 Kucherov, Alexander. The Tree Machine. Feb 84:28-29 Lamb, William G. Why Is the Shy Blue?. Jan 84:101-02

Lawrence, Paula, Gerald Skoog, and Barbara Simmons. At Their Levil: LEA in the Science Classroom. Jan 84:103-05 Lentz, Kathleen A., and Elisabeth J. Coe. Determining Levels of Concreteness and Abstraction (What Research Says). March 84:50-52

Lewis, Mary H., and Doris K. Grigsby. Tomatoes in Space.

Leyden, Michael B. For It's Only a Paper Moon. April 84:18-20

Lind, Karen K. Which Computer Magazine? Jan 84:21-23 Lupo, Patricia, O.S.B. Do Not Squander What Belongs to Future Generations (In the Schools). May 84:63–64
McClurg, Pat. Don't Squash It! Collect It!. May 84:8-10
Macey, Ioan Mary. What a Trashy Display! (Bulletin Board).

Feb 84:38
McIntyre, Margaret. Feling Full (Early Childhood). Oct
83:44–46; Tis the Susson (Early Childhood). Nov/Dec
83:37–38; Welcome Back! (Early Childhood). Sept

83:52-53
McKee, Mary E. Some Plants We Eat. Feb 84:19-20
McSwain, June. Reconsidering Gypsy Moths (Letters). Sept

Main, Edna D. Science and Creative Writing: A Dynamic Duo. Jan 84:24-26, 99-100

Maraniss, Linda, Richard Tinney, and Twig George. The First of March Gets the Soal of Approval. Feb 84:10-13 Marcuccio, Phyllis, and Henry J. Bindel, Jr., eds. Directory

of Sciene Education Suppliers, 3rd Edition. Jan 84:27-98
Mechling, Kenneth R., and Donna L. Oliver. The Principals' Project: Promoting Science Among Elementary School Principals. Nov/Dec 83:14-16; Who Is Killing Your Science Program? Oct 83:15-18

Medlock, Robert, and Josephine Midkiff. A Field Trip to Lakota (In the Schools). April 84:38–39

Midkiff, Josephine, and Robert Medlock. A Field Trip to Lakota (In the Schools). April 84:38-39

Miller, Penny Folley. Pick a Pack of Prizewinners. Oct 83:36-37

Mills, Richard. Insects and Others. May 84:4-7 Milson, James L. Looking Around at the Zoo. Feb 84:24-27; see also A Koala Update (In the News). May 84:3

Mindes, Mark, et al. Nature's Niche. April 84:26–27
Minstrell, Jim, and Carol Smith. Alternative Conceptions and a Strategy for Change (What Research Says). Nov/Dec 83:31–33

Mogil, H. Michael. Sharpening Your Weather Eye. Feb 84:14-18; Winter Storm Watch. March 84:10-14

Moore, John Travers. Some Bugs! Sept 83:22-23 Mullikin, Christine, Irwin L. Slesnick, and Joy Dabney. Who Lives in Muli? (Poster). March 84:29-36

Nathanson, Bob, et al. Nature's Niche. April 84:26-27 Neleson, Charles S. The May-June Issue of S&C (Letters). Sept 83:5

Nesin, Gert, and Lloyd H. Barrow. Density in Liquids. April 84:28-30

Oliver, Donna L., and Kenneth R. Mechling. The Principals' Project: Promoting Science Among Elementary School Principals. Nov/Dec 83:14–16; Who Is Killing Your Science Programi? Oct 83:15–18

Orlich, Donald C. Inservice Education: A Problem or a Solution?
(What Research Says). Feb 84:33-35
O'Sullivan Kathlean A Contine a Jestinia Coster March

O'Sullivan, Kathleen A. Creating a Learning Center. March 84:15-17 Padilla, Michael, and Linda L. Cronin. Endangered Species:

Activities and Ideas (Early Adolescence). Jan 84:109-11
Perry-Holmes, Claudia. Outdoors with Uncle Sam: 46 Ways to Use the Government Printing Office. Oct 83:23-26

Phillips, Julie. Space Age Meter. Oct 83:9-11 Pizzini, Edward L., and Rebecca C. Severeide. The Role of Play in Science (What Research Says). May 84:58-61 Plants Robert W Projectile Paint Classification Tab 84.6 0 Pon. Jenny, and Robert C. Victor. Sky Calendar (monthly) Powell, Richard R. Going to Seed. Feb 84:21-23

Rappaport, Stephen, et al. Nature's Niche. April 84:26-27 Reesink, Carole J. Metric Munchies. April 84:16-17 Ricker, Kenneth S. Science (Curriculum Reviews), Feb

84-36-37 Rideway, Carolyn, Measuring Up. Oct 83:29-30

Riley, Joseph P. Come With Me Science Series (Curriculum Reviews). Oct 83:52

Rutland, Carole. Cosmictudes (Learning Aids of Note). April 94.22

Rvan, Alan, and Howard H. Birnie. Inquiry/Discovery Revisited April 84-31-32

Santorò, Anne Marie. 3-2-1 CONTACT. Sept 83:24-26 Sawyer, Jane, and Mavis Brown. A Child's Garden of Radishes. April 84:23-24

Schneider, Mike. Setting Up an Outdoor Lab. Jan 84:17-20 Sennett, Mary Lucy. Dealing with Patterns. May 84:53-54 Severeide, Rebecca C., and Edward L. Pizzini. The Role of Play in Science (What Research Says). May 84:58-61

Sewall, Susan. Students as Spiders. March 84:18-19 Shaw, Edward. Elementary Population Activities Kit (Curriculum Reviews). Sept 83:59-60; see also A Misnomer. Feb 84:37; Pandas and Arthropods! An Introduction to Insects and Their Relatines (Curriculum Reviews). Nov! Dec 83:39

Sheldon, Daniel S., and Robert E. Yager. Nutrition Made R.F.A.L. Feb 84:30-31

Shrigley, Robert L. If I Were Beginning Again: Reflections of a 30-Year Veteran. April 84:6-11

Simmons, Barbara, Paula Lawrence, and Gerald Skoog, At Their Level: LEA in the Science Classroom. Jan 84: 103-05

Skoog, Gerald, Paula Lawrence, and Barbara Simmons At Their Level: LEA in the Science Classroom. Jan 84: 103-05

Slesnick, Irwin L., Christine Mullikin, and Joy Dabney. Who Lives in Mud? (Poster) March 84:29-36

Sloman, Eneas. Have You Hugged Your Tree Today? Oct 83:31-32

Smith, Carl. Building a Nature Trail. Jan 84:14-17

Smith, Carol, and Jim Minstrell, Alternative Conceptions and a Strategy for Change (What Research Says). Nov/Dec 83:31-33

Smith, Walter S. Boning Up on Birds. Nov/Dec 83:26-27 Styer, Sandra. Books That Ask the Right Questions. March 84-40-42

Sumners, Carolyn, and Terry Contant. Earthbound Astronaute Nov/Dec 83-7-11

and Howard L. Jones. Roller Conster Science. Oct 83:12-14

Sutherland, Betsy. Making Insect Models. March 84:24-28.

Tinney, Richard, Twig George, and Linda Maraniss. The First of March Gets the Seal of Approval. Feb 84:10-13

Victor, Robert C. The Return of the Sun Drugon. May 84:16-19 , and Jenny Pon. Sky Calendar (monthly)

Walker, Ormiston H. Making Waves with Doppler. March

Wandersee, James H. The Concept of "Away" (What Research Says). Oct 83:47-49

Waugh, Michael L. The Science of Steelmaking (Curriculum Reviews). May 84:62

White, Cathie Baird. Practical Technology (Early Adolescence). Oct 83:38-41

White, Edwin P. The Factory (Curriculum Reviews). May 84:62; Geology Search (Curriculum Reviews). Feb 84:38; Montonon Parade (Curriculum Reviews). Feb 84:37: Parts of a Microscope (Curriculum Reviews). May 84:62 Wolfe, Janet K., and Mary Jo Knouff. Flying High for 200

Years. Sept 83:9-12 Yager, Robert E., and Daniel S. Sheldon. Nutrition Made

R.E.A.L. Feb 84:30-31 Zimmerman, Marianna. One from the Heart. Nov/Dec 83-28-29

SUBJECT INDEX

Activities and Resources

Ad-vailables (monthly)

An Aluminum Belt: Some Lessons in Recycling. Joan Jung. March 84:38-39

Boning Up on Birds. Walter S. Smith. Nov/Dec 83:26-27 Books That Ask the Right Questions. Sandra Styer. March 84:40-42

Bringing Clams to the Classroom, John W. Butzow, Oct 83-33-35

Building a Nature Trail. Carl Smith. Jan 84:14-17 A Child's Garden of Radishes. Mavis Brown and Jane Sawver April 84-23-24

The Concept of "Away" (What Research Says), James H. Wandersee, Oct 83:47-49

Curve Balls, Airplane Wings, and Prairie Dog Holes. George B. Barnes. May 84:13-15

Dealing with Patterns. Mary Lucy Sennett. May 84:53-54 Density in Liquids. Gert Nesin and Lloyd H. Barrow. April 84-28-30

Directory of Science Education Suppliers, 3rd Edition. Ed. Henry I. Bindel, Ir. and Phyllis Marcuccio. Jan 84:27-98 Don't Squash It! Collect It!. Pat McClurg. May 84:8-10 Earthbound Astronauts. Carolyn Sumners and Terry Con-

tant NoviDec 83-7-11 Endangered Species: Activities and Ideas (Early Adolescence). Michael J. Padilla and Linda L. Cronin. Jan 84:109-11 Evening Skies in a Shoe Bax. John D. Flowers. May 84:55 The First Hundred Years of Ballooning (Poster). Sept 83:27-28.

The First of March Gets the Seal of Approval. Richard Tinney,
Twig George, and Linda Maraniss. Feb 84:10-13 Flying High for 200 Years. Janet K. Wolfe and Mary lo

Knouff. Sept 83:9-12 Go Fly a Balloon! Nov/Dec 83:12-13

Going to Seed. Richard R. Powell. Feb 84:21-23 Have You Hugged Your Tree Today? Eneas Sloman. Oct 83-31-32

Help Wanted, Paul Gordon, Oct 83:18 Insects and Others. Richard Mills. May 84:4-7 In the News (monthly)

49-50

Looking Around at the Zoo. James L. Milson. Feb 84:24-27; see also A Kaala Update (In the News). May 84:3 Making Insect Models. Betsy Sutherland. March 84: 24-28 37

Measuring Up. Carolyn Ridgway. Oct 83:29-30 Metric Munchies. Carole J. Reesink. April 84:16-17

The Not-So-Rocky Road to Earth Science: Some Geologists Show the Way. Joyce R. Blueford and Leslie C. Gordon, April 84:12-15

Nutrition Made R.E.A.L. Robert E. Yager and Daniel S. Sheldon. Feb 84:30-31

One from the Heart. Marianna Zimmerman. Nov/Dec 83:28-29

Outdoors with Uncle Sam: 46 Ways to Use the Government Printing Office. Claudia Perry-Holmes. Oct 83:23-26
Outstanding Science Trade Books for Children, 1983. March 84-43-47

Pick a Pack of Prizewinners. Penny Folley Miller. Oct 83:36-37 Practical Technology (Early Adolescence). Cathie Baird White. Oct 83:38-41

Projectile Point Classification. Robert W. Plants. Feb 84:6-9 Resources Reviews. Ed. Henry Heikkenen (monthly) Roller Conster Science. Carolyn Sumners and Howard L. Jones. Oct 83:12-14

The Rural Advantage. Charles R. Coble and Thomas R.

Science and Creative Writing: A Dynamic Duo. Edna D. Main.

See How They Grow. Marlin Robert Bandy. Oct 83:42-43 Setting Up an Outdoor Lab. Mike Schneider. Jan 84:17-20 Sharpening Your Weather Eye. H. Michael Mogil. Feb 84:14-18 Some Bugs! John Travers Moore. Sept 83:22-23 Some Plants We Eat. Mary E. McKee. Feb 84:19-20

83:23-24 Students as Spiders. Susan Sewall. March 84:18-19

350 Million Years Old and Still Going Strong, Kathleen Letcher Cowles, March 84:20-23

March 84:6-7

Using Interactive Video. Samuel F. Howe. Sept 83:13-14 Barrow. Oct 83:27-28

Feb 84:38

Prickly Pear to the Rescue. Velma Lou Davis. May 84:11-12

Koballa, Jr. Oct 83:19-22

Jan 84:24-26, 99-100

Starting Trees from Cuttings. David C. Kramer. Nov/Dec

un Prints (Helpful Hints). John C. Coulter. May 84:56 Sweet Renson. Frances Barhydt. Nov/Dec 83:17-19 Take a Bird's-eye View. 'Laine I. Gurley. Sept 83:19-21

Tomatoes in Space. Doris K. Grigsby and Mary H. Lewis.

Using the Big C in Science. Bette S. Bergeron and Lloyd H.

What a Trashy Display! (Bulletin Board). Joan Mary Macey.

Which Computer Magazine? Karen K. Lind. Jan 84:21-23

Why Is the Sky Blue? William G. Lamb. Jan 84:101-02 Why the North Star Doesn't Move (Helpful Hints). Julie Cassen. April 84-20

Winter Storm Watch. H. Michael Mogil. March 84:10-14 Working Together. Gretchen M. Alexander. Sept 83:26, 51 The World of Tiny Living Things. Debbrah A. Karstaedt, lan 84.7-11

Biology (Environmental and Natural Sciences)

An Aluminum Belt: Some Lessons in Recucling, Joan Jung, March 84:38-39

Boning Up on Binds. Walter S. Smith. Nov/Dec 83:26-27 Bringing Clams to the Classroom. John W. Butzow. Oct 83:33-35

Building a Nature Trail. Carl Smith, Ian 84:14-17 Cell Theory Rap. Deborah I. Carver, Nov/Dec 83:25 Do Not Squander What Belongs to Future Generations (In the Schools). Patricia Lupo, O.S.B. May 84:63-64

Don't Squash It! Collect It! Pat McClurg. May 84:8-10 Endangered Species: Activities and Ideas (Early Adolesce Michael I. Padilla and Linda L. Cronin, Jan 84:109-11 The First of March Gets the Seal of Approval. Richard Tinney,

Twig George, and Linda Maraniss. Feb 84:10-13 Gardening at Horizons. Amy Ballin. April 84:21-22 Going to Seed. Richard R. Powell. Feb 84:21-23 The Ins and Outs of Life Science (In the Schools). Diane Crowe. Nov/Dec 83:34-36

serts and Others. Richard Mills. May 84:4-7 Invitation to a Mold Symposium (In the Schools). Lou Del Soldo and Lisa Irwin, Jan 84:106-08

Looking Around at the Zoo. James L. Milson. Feb 84:24-27; see also A Koala Update (In the News). May 84:3

Making Insect Models. Betsy Sutherland. March 84:24-28,

Nutrition Made R.E.A.L. Robert E. Yager and Daniel S. Sheldon. Feb 84:30-31

Prickly Pear to the Rescue. Velma Lou Davis. May 84:11-12 The Rural Advantage. Charles R. Coble and Thomas R. Koballa, Jr. Oct 83:19-22

See How They Grow. Marlin Robert Bandy. Oct 83:42-43 Setting Up an Outdoor Lab. Mike Schneider. Jan 84:17-20 Some Plants We Eat. Mary E. McKee. Feb 84:19-20 Starting Trees from Cuttings. David C. Kramer. Nov/Dec 83-23-24

Students as Spiders, Susan Sewall, March 84:18-19 Take a Bird's-aye View. Laine I. Gurley. Sept 83:19-21 350 Million Years Old and Still Going Strong. Kathleen Letcher Cowles. March 84:20-23

The Tree Machine. Alexander Kucherov. Feb 84:28-29 Tomators in Space. Doris K. Grigsby and Mary H. Lewis. March 84-6-7

What a Trasky Display! (Bulletin Board), Joan Mary Macey. Feb 84:38

Who Lives in Mud? (Poster). Irwin L. Slesnick, Christine Mullikin, and Joy Dabney. March 84:29-36

The World of Tiny Living Things. Debbrah A. Karstaedt. Jan 84-7-11

Early Childhood

But That's Not Fair! Nancy Kaplan. April 84:24-25 A Child's Garden of Radishes. Mavis Brown and Jane Sawyer. April 84:23-24

Feeling Fall (Early Childhood). Margaret McIntyre. Oct 83:44-46

Have You Hugged Your Tree Today? Eneas Sloman. Oct 83:31-32

Tis the Senson (Early Childhood). Margaret McIntyre. Nov/Dec 83:37-38 Welcome Back! (Early Childhood). Margaret McIntyre. Sept

83:52-53

Earth and Space Science

Evening Skirs. D. David Batch (monthly) Evening Skies in a Shoe Box. John D. Flowers. May 84:55 The First Hundred Years of Ballooning (Poster). Sept 83:27-28, 49-50

Flying High for 200 Years. Janet K. Wolfe and Mary Jo Knouff. Sept 83:9-12

For It's Only a Paper Moon. Michael B. Leyden. April 84:18-20

Go Fly a Balloon! Nov/Dec 83:12-13

Minerals and Formal Thought (Early Adolescence). Janice B. Garver. Sept 83:54-56

The Not-So-Rocky Road to Earth Science: Some Geologists Show the Way. Joyce R. Blueford and Leslie C. Gordon. April 84:12-15

The Return of the Sun Dragon. Robert C. Victor. May 84:16-19

Sharpening Your Weather Eye. H. Michael Mogil. Feb 84:14–18 Sky Calendar. Robert C. Victor and Jenny Pon (monthly) natoes in Space. Doris K. Grigsby and Mary H. Lewis. March 84:6-7

Why Is the Sky Blue? William G. Lamb. Jan 84:101-02 Why the North Star Doesn't Move (Helpful Hints). Julie Cassen. April 84:20

Winter Storm Watch. H. Michael Mogil. March 84:10-14

Measurement and the Metric System Measuring Up. Carolyn Ridgway. Oct 83:29-30 Metric Munchies. Carole J. Reesink. April 84:16-17 Space Age Meter. Julie Phillips. Oct 83:9-11

NSTA and CESI Activities

Association Affairs (monthly) Guidelines for Authors. Sept 83:71: May 84:70 NSTA Awards Program. Oct 83:56-57 NSTA Calendar (monthly) NSTA Fall Meetings. Sept 83:57-58 NSTA Member Benefits/Publications. May 84:25-52 NSTA National Convention, Tours and Forms. Nov/Dec 83:43-45; Jan 84:116-19; Feb 84:40-41 NSTA Position Statement: Recommended Standards for the Prepara-

tion and Certification of Teachers of Science at the Elementary and Middle/Junior High School Levels. Sept 83:65-70 The Principals' Project: Promoting Science Among Elementary School Principals. Kenneth R. Mechling and Donna L. Oliver.

Nov/Dec 83:14-16

Physics and Chemistry Curve Balls, Airplane Wings, and Prairie Dog Holes. George B.

Barnes. May 84:13-15

Density in Liquids. Gert Nesin and Lloyd H. Barrow. April 84:28-30 Earthbound Astronauts. Carolyn Sumners and Terry Con-

tant. Nov/Dec 83:7-11
Making Waves with Doppler. Ormiston H. Walker. March

84:8-9 Roller Conster Science. Carolyn Sumners and Howard L. Jones. Oct 83:12-14

Sun Prints (Helpful Hints). John C. Coulter. May 84:56 Sweet Rosson. Frances Barhydt. Nov/Dec 83:17-19

Programs and Curriculum Designs

Combatting the Hydra (Curriculum Reviews). Joseph C. Burns. Sept 83:59

Come With Me Science Series (Curriculum Reviews). Joseph P. Riley. Oct 83:52

Cosmictudes (Learning Aids of Note). Carole Rutland. April 84:33

Elementary Population Activities Kit (Curriculum Reviews). Edward Shaw. Sept 83:59-60; see also A Misnomer. Feb 84:37

The Factory (Curriculum Reviews). Edwin P. White, May 84:62

Geology Sourch (Curriculum Reviews). Edwin P. White. Feb 84:38

The Growing Classroom (Curriculum Reviews). Judy H. Dennison. April 84:33

Montown Parade (Curriculum Reviews). Edwin P. White. Feb 84:37

Pandas and Arthropods! An Introduction to Insects and Their Relatives (Curriculum Reviews). Eddie [Edward] Shaw Nov/Dec 83:39 Parts of a Microscope (Curriculum Reviews). Edwin P. White.

May 84:62 Science (Curriculum Reviews), Kenneth S. Ricker, Feb.

84:36-37 The Science of Steelmaking (Curriculum Reviews). Michael L.

Waugh. May 84:62 Solar Energy: Transferring and Storing Energy from the Sun (Curriculum Reviews). Richard Faller. Feb 84:37

TOPS Learning Systems (Curriculum Reviews). Miriam Dobrofsky. Oct 83:50–52 Visual Perception of Objects (Curriculum Reviews). Richard

Alternative Conceptions and a Strategy for Change (What Research Says). Jim Mii rell and Carol Smith. Nov/Dec

Science Education (Methods, Background, and Discus-

sion)

At Their Level: LEA in the Science Classroom. Paula Lawrence, Gerald Skoog, and Barbara Simmons. Jan 84:103-05 Books That Ask the Right Questions. Sandra Styer. March

84:40-42 But That's Not Fair! Nancy Kaplan. April 84:24-25

The Concept of "Away" (What Research Says). James H. Wandersee. Oct 83:47-49

ing a Learning Center. Kathleen A. O'Sullivan. March 84:15-17

Dealing with Patterns. Mary Lucy Sennett. May 84:53-54 Determining Levels of Concreteness and Abstraction (What Research Says). Kathleen A. Lentz and Elisabeth J. Coe. March 84:50-52

An Echo in Nepal. Leslie Combs. Sept 83:15-18 A Field Trip to Lakota (In the Schools). Josephine Midkiff and Robert Medlock. April 84:38-39

Were Beginning Again: Reflections of a 30-Year Veteran. Robert L. Shrigley. April 84:6-11 Inquiry/Discovery Revisited. Howard H. Birnie and Alan Ryan.

April 84:31-32 Inservice Education: A Problem or a Solution? (What Research

Says). Donald C. Orlich. Feb 84:33-35 Intelligently Wrong: Some Comments on Children's Miss Charles R. Ault, Jr. May 84:22-24

In the Balance, Lawrence I. Bellipanni, Donald R. Cotten, and Jan Marion Kirkwood. Jan 84:12-13

eting Science Education Goals with 3-2-1 CONTACT (What Research Says). Jerome Johnston. April 84:38-39 Minerals and Formal Thought (Early Adolescence). Janice B. Garver. Sept 83:54-56

Nature's Niche. Stephen Rappaport et al. April 84:26–27
"Oh No! A Science Project!" Gail C. Foster. Nov/Dec 83:20–22
The Principals' Project: Promoting Science Among Elementary School Principals. Kenneth R. Mechling and Donna L. Oliver. Nov/Dec 83:14-16

The Role of Play in Science (What Research Says). Rebecca C. Severeide and Edward L. Pizzini. May 84:58-61 Saturday Morning Science Live (In the Schools). Gloria Kortmeyer. March 84:48-49

Science and Creative Writing: A Dynamic Duo. Edna D. Main. Jan 84:24-26, 99-100

Stamp Out Blue Blood! Kenneth W. Johns. May 84:20-21 Sweet Reason. Frances Barhydt. Nov/Dec 83:17-19 3-2-1 CONTACT. Anne Marie Santoro. Sept 83:24-26 Using the Big C in Science. Bette S. Bergeron and Lloyd H. Barrow. Oct 83:27-28

Who Is Killing Your Science Program? Kenneth R. Mechling and Donna L. Oliver. Oct 83:15-18

July 25-28, 1984-NSTA Summer Board/ CAG Meeting, Breckenridge, Colorado

October 15, 1984-Deadline for submissions for American Vacuum Society Award (write NSTA for forms)

October 18-20, 1984-NSTA Area Convention, Minneapolis, Minnesota

November 1, 1984-Deadline for receipt of nomination materials for NSTA Board of

November 8-10, 1984—NSTA Area Convention, Charlotte, North Carolina

November 14, 1984—Deadline for the NSTA Awards Programs (write NSTA for forms):

The Robert H. Carleton Award for National Leadership in the Field of Science

The NSTA Citations for Distinguished Service to Science Education

The Gustav Ohaus Awards, sponsored by the Ohaus Scale Corporation

The Science Teaching Achievement Recognition (STAR) Awards, sponsored by the American Gas Association

The Exemplary Middle/Junior High Science Teaching Award, sponsored by the CIBA-**GEIGY Corporation**

The Exemplary Secondary Science Teaching Award, sponsored by the CIBA-GEIGY Corporation

The Sheldon Award for Exemplary Science Equipment and Facilities, sponsored by the Sheldon Manufacturing Company

The Outstanding Science Teacher of the Year Award, sponsored by Discover Magazine

The Cambridge Development Laboratory Award for The Art of Teaching with Computers

November 29-December 1, 1984-NSTA Area Convention, Albuquerque, New Mexico



Entomological Society of America

Marsh Farms

71 MMI Space Science

2, 25-52, 54 **NSTA Publications**

> Cover IV Ohaus Scale

Cover III Random House

73 Shenandoah College

> Cover II Silver Burdett



Faller. March 84:53

